

*In memory of Justynka, my wife*

# FORMULAS

FORMULA No.

**W29**

'The laws of nature are but the mathematical thoughts of God.'  
Euclid

[www.and-just-math.com](http://www.and-just-math.com)

We are not mathematicians, but we love mathematics and create formulas ourselves.

'No other science boosts the faith in the strength of the human spirit like mathematics.'  
Hugo Steinhaus

**1 WEEK = 7 DAYS**  
**=**  
**7 FORMULAS**

**NEW MATHEMATICAL FORMULA DAILY**

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$$\sum_{k=1}^{k=\infty} 3^{k-1} \times \sin^3 \left( \frac{\pi}{10 \times 3^{k-1}} \right) = \frac{6 \times \pi - 5 \times (\sqrt{5} + 1)}{80} \quad k \in N$$

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$$\sum_{k=1}^{k=\infty} \frac{1}{9 \times k^2 - 3 \times k - 2} = \frac{1}{3} \quad k \in \mathbb{N}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{k! \times (k^2 + k + 1) + 4 \times 3^k}{(k \times k! + 2 \times 3^k) \times [(k + 1) \times (k + 1)! + 2 \times 3^{k+1}]} = \frac{1}{7}$$

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$k \in N$

$$\sum_{k=1}^{k=\infty} \frac{20 \times k^2 - 18 \times k - 1}{(5 \times k - 4) \times (5 \times k + 1) \times (15 \times k - 14) \times (15 \times k + 1)} = \frac{1}{75}$$

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$k \in \mathbb{N}$

$$\sum_{k=1}^{k=\infty} \frac{11^{k-1} \times [(11 \times k + 12)^{k+1} + 121 \times (11 \times k - 10)^{k-1} - 22 \times (11 \times k + 1)^k]}{[(11 \times k + 12)^{k+1} - 11 \times (11 \times k + 1)^k] \times [(11 \times k + 1)^k - 11 \times (11 \times k - 10)^{k-1}]} = 1$$

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$$\sum_{k=1}^{k=\infty} \frac{(k+2) \times 3^k}{(k+5)!} = \frac{1}{40} \quad k \in \mathbb{N}$$

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$$\prod_{k=1}^{k=\infty} \left( 1 - 4 \times \sin^2 \left( \frac{\pi}{12 \times 5^{k-1}} \right) + 3, 2 \times \sin^4 \left( \frac{\pi}{12 \times 5^{k-1}} \right) \right) = \frac{3 \times (\sqrt{6} + \sqrt{2})}{5 \times \pi} \quad k \in \mathbb{N}$$

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week and every day  
to our website  
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